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Progress Report

NLM's National Biomedical Holdings Data Base

by Betsy L. Humphreys, Chief, Technical Services Division

The MEDLARS III system will eventually contain location and holdings information for serials, monographs, and audiovisuals held by health-sciences libraries throughout the United States. Information on the commercial availability of reprints and microform editions of serials will also be included.

The major use of the location and holdings data in the NLM system will be in the automatic routing of document requests. Union list products, collection statistics, and reports relating to cooperative acquisitions programs will also be generated in a variety of media and formats.

Although the general availability of automated request routing in MEDLARS III is a few years away, the Library is already assembling the location and holdings data which will be needed by the new system. Because 85% of network document request traffic is for journal articles, NLM's current efforts are concentrated on serials holdings data. In 1982, NLM will be able to generate a variety of serials union list products from the data currently being collected.

Involvement of the Library Community

The plans to develop the national biomedical holdings data base require a division of labor among NLM, the Regional Medical Libraries, and individual libraries participating in the system. NLM has assumed responsibility for creating and maintaining all bibliographic data in the system, for storing and processing machine-readable holdings data received from participants, and for combining the bibliographic and holdings data into usable products.

The Regional Medical Libraries have agreed to coordinate the efforts of participants within their Regions. The RMLs will plan for the capture of holdings data in appropriate machine readable form, provide training and administrative assistance as needed, and arrange for the transfer of data to NLM. They or their designated agents will also be responsible for distributing regional or sub-regional products generated from the system. The RMLs have created a special Task Force on Serials Holdings Data, which advises NLM on matters related to serials holdings data collection and use and helps disseminate information about the program.

Individual libraries within the regions are responsible for recording their holdings accurately in an appropriate format and for working with the RML to convert their holdings data to machine-readable form either directly or through participation in a local or regional serials data base.

Format of Data

NLM will accept holdings data in machine-readable form only. The data must be transmitted according to the *Format for Transmission of Holdings Data to the NLM National Biomedical Serials Holdings Data Base*, which is available from all Regional Medical Libraries. The format is compatible with the American National Standards Committee standard, *Serial Holdings Statement at the Summary Level* (Z39.42-1980), but it also permits the use of existing machine-readable holdings statements created before

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NEWS

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the standard was developed. Although MEDLARS III will contain a mechanism for online entry and update of holdings data for those who wish to use it, current efforts are concentrating on batch transfer of holdings data to the NLM system.

Following the MEDLARS III principle of integrating and augmenting rather than duplicating existing services and systems, the national serials holdings data base will take advantage of existing automated holdings data whenever possible and make available from a single source data which are currently dispersed among many disparate systems. Many biomedical libraries already contribute holdings data to local or regional union list data bases or capture such data as a by-product of automated serials processing activities. To avoid duplicate effort by these libraries, it will be necessary to transfer their data automatically to the NLM system

Data Collection

To accomplish such a transfer efficiently requires a unique identifier which links a serials bibliographic record in a data base to its exact counterpart in the NLM system. Unfortunately, existing standard unique identifiers such as ISSN (International Standard Serial Number) and CODEN are not available for the range of titles which will be covered in the MEDLARS III system; NLM has therefore decided to use its own unique serials control number as the needed link. Since there is considerable effort involved in entering these control numbers in large existing files with holdings data for biomedical libraries, NLM has assumed responsibility for this one-time task. The RMLs will coordinate the ongoing addition of NLM control numbers to regional and local data bases after NLM has dealt with retrospective files.

NLM has a current contract with Computer Horizons, Inc. of Cherry Hill, N.J. which will (1) establish a control number link between like serial titles in NLM's serials data base and those in 21 other files with serials holdings data for biomedical libraries; (2) collect existing serials holdings data from those files for titles for which the control number link has been established.

Completion of the first task will allow other file managers to establish automated procedures to update the holdings data in NLM's data base regularly. The second task, collecting existing serials data, will assist in the initial creation of the national biomedical holdings data base. The contract is scheduled for completion by October 1, 1981.

The OCLC* and RLIN** data bases are not covered in the contract activity because neither contained extensive biomedical holdings data at the time the project began. NLM is aware of the need to interact with both systems and has been negotiating with OCLC, in particular, as many health-sciences libraries are current OCLC users. OCLC will allow NLM serial control numbers to be input in serials records in the OCLC data base and is working on the maintenance specifications to make this possible.

The contract activity covers existing holdings data for about 500 biomedical libraries. Many additional libraries, working with their Regional Medical Libraries, are building new files of serials holdings data which include the NLM control number so that their information can also be transmitted automatically to the national system.

Any library or group of libraries interested in preparing data for the national system should contact the appropriate Regional Medical Library for more information. Fortunately, Region VII is preparing a useful guide, *Union Lists of Serials: Guidelines*, which is an excellent introduction to the issues, problems, and alternatives which should be considered in collecting holdings data and developing union lists. It

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* Online Computer Library Center
**Research Libraries Information Net

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also includes specific instructions for coding holdings statements in the required format. The guide should be available for distribution from the Region VII RML shortly. Exact price and order information will be announced in a future issue of the *NLM News*.

Schedule

Holdings data received from the contract project and from other sources (before November 1, 1981) will be merged on the NLM system by January 1982. At that time, NLM will begin to produce union lists for distribution by the Regional Medical Library Network. Both computer-output-microform and paper products will be available. Frequency of union list production will depend on the amount of updated holdings data received and on Regional needs; it is anticipated that many lists will be updated twice yearly.

Holdings data from libraries with extensive or unique serials collections will also be made available online in the SERLINE file. Holdings data from smaller libraries will not be available online in SERLINE. Online searching is a relatively expensive way to access local holdings information, and the inclusion of so many holdings statements would make the online file cumbersome to use.

Union lists generated in 1982 will include holdings for serial titles which are currently represented in NLM's serials data base of over 40,000 titles. This data base includes only a portion of the ceased serial titles held by NLM and a small fraction of serial titles held in the Regions which are not in the NLM collection. A recent analysis of serial titles held by medical school libraries in PHILSOM* but not by NLM suggests that, at most, 12.5% of the titles held by medical libraries throughout the country are not in the NLM collection. The large majority of these are either outside the subject areas covered by NLM or are non-substantive. NLM intends to add these titles, as well as those retrospective titles in the NLM collection which are not in machine-readable form, to its serials data base over the next few years. The timing of this activity depends on NLM's progress toward adopting a MARC-like format in its internal bibliographic file and eliminating the present redundant storage of serials bibliographic data in both CATLINE and NLM's serials system. In the meantime, titles in the NLM serials system include the vast majority of serials requested in current network document delivery traffic.

Specific information on the availability of union list products generated by NLM will appear in later issues of the *NLM News* as the program progresses. For additional information about NLM's current activities, contact Martha Fishel, Assistant Head, Serial Records Section (tel. 301-496-1218). Your Regional Medical Library can provide information on Regional projects related to serials holdings data and union lists.

* *Periodical Holdings in Libraries of Schools of Medicine*

NIH Consensus Development Conferences

The NIH Office for Medical Applications of Research (OMAR) is now mailing to *NLM News* readers its latest consensus development summary on *Coronary Artery Bypass Surgery*. The summary is based on a recent conference sponsored by the National Heart, Lung, and Blood Institute in conjunction with the National Center for Health Care Technology and OMAR. Readers will also receive a summary book of all consensus reports from 1980.

Online Training Offered in Montreal

The Library has announced that it is offering a special three-day Initial Online Services Training Course in Montreal, Canada, for backup searchers during the week preceding the annual Medical Library Association meeting. The course will include the lectures, discussions, and demonstrations included in the standard initial training curriculum, plus an overview of some additional data bases not usually included in the course. (There will be no hands-on terminal exercises.) The class will be held May 27-29 (Wednesday-Friday), prior to the conference, in the Harricana Room of the Queen Elizabeth Hotel, Montreal. Applications may be obtained by calling MEDLARS Management Section (301

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496-6308). NLM (not MLA) will perform the scheduling for this course. Registration is limited to 50 individuals. The course has been approved by MLA for 21 contact hours towards MLA recertification requirements.

New Literature Searches

Two new titles beginning the 1981 NLM Literature Search series may now be requested from the Library's Reference Section (see below). Literature Searches are printed bibliographies produced through MEDLINE on subjects of current interest. They are available without charge. (A complete list of titles appears in each issue of *Index Medicus* and *Abridged Index Medicus.*) When requesting Literature Searches, please include title and number, enclose a self-addressed gummed label, and mail to:

Literature Search Program
Reference Section
National Library of Medicine
Bethesda, Maryland 20209

LS 81-1 *Occupational neurobehavioral toxicology.* January 1975 through March 1981. 282 citations.

LS 81-2 *Genetic screening and counseling.* January 1977 through December 1980. 455 citations.

Cataloging Notes

NLM Classification 4th Edition, Revised 1981: the fourth edition, which was published in 1978 and is no longer in print at GPO, is now being readied for publication in a revised edition this summer. Ordering information will be announced in an upcoming issue of the *NLM News.*

Limited Cataloging: NLM began the use of a minimal level description for some cataloging records in late 1979. These limited cataloging records, not previously published by NLM, will appear in the monograph section of the 1976-1980 cumulation of the *NLM Current Catalog* (now being prepared for publication later in 1981) and all future *Current Catalog* publications.

Name/Title to precede Subject Section: Beginning in 1981, all cataloging publications will be printed with the Name/Title Section preceding the Subject Section. This order corresponds to the usual search patterns of catalog users.

NLM in the Literature

The following citations were retrieved from the March-May MEDLINE files. They point to recent articles in which the National Library of Medicine (or its products and services) is discussed.

Graham DL: Simultaneous remote search: a technique of providing MEDLARS Services to remote locations. Bull Med Libr Assoc 1980 Oct;68(4):370–1

Mosley IJ: Computer-based information services in medicine. NZ Med J 1980 Jul 23;92(664):60–3

Rosenbaum M: The role of the term schizophrenia in the decline of diagnoses of multiple personality. Arch Gen Psychiatry 1980 Dec;37(12):1383–5
The syndrome of multiple (dissociated) personality fell into disrepute around 1910. This has been attributed to loss of interest in hypnosis; psychiatrists believed the syndrome resulted from hypnosis and that they were duped. However, around 1910 an important event occurred in psychiatry: Bleuler introduced the term 'schizophrenia' to replace 'dementia praecox.' This factor also played a role in the decline of recognition of the multiple personality syndrome, and many of these cases were diagnosed as schizophrenia. A review of Index Medicus from 1903 through 1978 shows a dramatic decline in the number of reports of multiple personality after the diagnosis of schizophrenia 'caught on,' especially in the United States. A review of clinical reports indicates that many patients with multiple personality had been diagnosed and treated as schizophrenics.

Welch J: Computerised information retrieval services in a teaching hospital. Br Med J 1980 Jun 14; 280(6229):1433–4

Vaisrub S: In praise of 'letters' [editorial] JAMA 1981 Jan 23–30;245(4):376

Executive Officer, Deputy Named

Kenneth G. Carney has been appointed NLM Executive Officer. Mr. Carney has been with the Library since 1968, serving in a number of administrative capacities including grants and contracts management, program analysis, and most recently as Deputy Executive Officer. Mr. Carney has also served with the NIH Division of Computer Research and Technology and, for 5½ years, he was an illustrator with NIH's Medical Arts and Photography Branch. He has received several commendations for his service, including the NIH Merit Award.

Kenneth O. Cooke has been named Deputy Executive Officer. Mr. Cooke began his administrative career as an NIH Management Intern, then progressed to Budget Analyst, National Institute of Child Health and Human Development; Budget Officer, National Eye Institute;

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and Administrative Officer and later Deputy Executive Officer, National Institute of Allergy and Infectious Diseases.

Ken Carney (left), NLM's new Executive Officer, is shown with the Deputy Executive Officer, Ken Cooke.

Serial Gap List

NLM regularly solicits the help of the medical library community in filling gaps in its serial collections. If you can provide any of these items we would be most grateful. Please address them to:

National Library of Medicine
TSD-Gaps
Bethesda, MD 20209

Contemporary OB/GYN 13: 1-6, 1979
Evaluation Quarterly 1: 1-4, 1977
Highlights of Nuclear Medicine 1979 ed.
Hormonal Proteins and Peptides Vol. 8, 1980
Journal of Behavioral Medicine 1: 1-2, 1978; 2: 1-2, 1979
Journal of Verbal Learning and Verbal Behavior 5: 1966; 79: 2, 1980
Progress in Gynecology 4: 1970
Southwestern Medicine 45: 6, 1964; 47: 2, 1966
SPPSG; Newsletter for the Science and Public Policy Studies Group 1: 1-10, 1970; 2: 1-3, 6-8, 10, 1971; 3: 1, 8, 1972
Trends; The Wisconsin Regional Medical Program Nos. 1-3, 1969; Nos. 1, 2, 4, 1970; Nos. 3, 4, 1971; Nos. 1, 2, 1972
US Pharmacist 1: Aug 1976; 2: Jan, Mar, Nov, 1977; 4: 1979
Washington Report on Long Term Care Nos. 60, 62, 65-69, 1973; Nos. 75, 76, 115, 1974
Washington Report on the Medical Sciences No. 849, 1963; Nos. 902, 904, 908, 911, 921, 924, 930, 939, 940, 944-952, 962, 972-974, 976, 1006 (1964); Nos. 1020, 1025, 1029, 1031, 1045, 1047, 1051, 1058, 1061, 1062, 1064, 1066, 1068, 1072, 1075, 1076 (1967).
Western Journal of Nursing Research 1: 2, 1979

Videocassette Loan Service

As announced in the December 1980 issue of the *News*, the Library's National Medical Audiovisual Center (NMAC) has begun an interlibrary loan service for ¾-inch videocassettes in cooperation with the Regional Medical Library network. Some 900 titles from the AVLINE data base are now available from NMAC on interlibrary loan. These titles carry the tag NMAC-ILL in the Procurement Source (PC) field in AVLINE to allow search access, and a printed listing is being prepared by subject.

In additional to central access to these titles at NMAC, "satellite collections" of 300 NMAC video productions (a subset of the 900 titles) have been sent to specially designated AV Resource Libraries within the regions. These libraries will house the collections and offer loan service for those 300 titles within their region. Specific loan policies and procedures may differ in each region, so individuals should contact their RML office or the AV Resource Libraries designated below for their region.

Region I	Tufts University
Region II	College of Medicine and Dentistry of New Jersey
Region III	Penn State University
Region IV	to be determined
Region V	Wright State University
Region VI	Emory University
Region VII	University of Illinois at the Medical Center
Region VIII	Creighton University
Region IX	University of Oklahoma at Oklahoma City
Region X	University of Oregon (Portland)
Region XI	Currently not housing a satellite collection

For more information, please contact the Materials Utilization Branch, National Medical Audiovisual Center, Bethesda, Maryland 20209.

Chinese Scholars Help Catalog NLM Items

The National Library of Medicine has a cooperative arrangement with the Chinese Academy of Medical Sciences, Institute of Medical Information. This arrangement was initiated in February of this year with the arrival of **Dr. Shi Ji-zhao** and **Dr. Ma Jixing** to work for approximately four months on the Chinese traditional medical literature in the collection of the National Library of Medicine. This is the first time that this literature will have been identified, verified, and described in such a way that it can be entered into the cataloging records of the National Library of Medicine and made available to scholars. In return for the work of Dr. Shi and Dr. Ma on NLM's Chinese literature collection, the Library will provide two additional Chinese with training in modern medical library management and indexing.

The two Chinese scholars—Dr. Ma Jixing (second from left), a traditional Chinese physician, and Shi Ji-zhao, M.D. (third from left), an internist—are shown with NLM Director Martin M. Cummings, M.D. (right) and Miss Mary E. Corning, NLM Assistant Director for International Programs.

Dr. Shi is an internist at the Capital Hospital (formerly Peking Union Medical College), which is associated with the Chinese Academy of Medical Sciences. Her experience has been in clinical work, teaching, research, and medical administration. She has been active in cooperative research programs which have combined both traditional and Western medicine. Dr. Shi is a member of the Chinese Medical Association, the Editorial Board of the *Journal of Chung Hua Internal Medicine*, the State Scientific Technological Community, the Board of Regents of the Chung Hua Chinese Traditional Medical Association, the Science Committee of the Chinese Academy of Medical Sciences, and the Editorial Board of *Acta Academiae Medicinae Sinicae.* has published extensively on hepatic diseases.

Dr. Ma is a traditional Chinese medicine physician who is currently an Associate Research Fellow in the Department of Medicinal History and Literature of the Academy of Traditional Chinese Medicine. He has conducted research in Chinese medical history, history of acupuncture and moxibustion, history of Chinese materia medica, and ancient Chinese medical literature. Dr. Ma has been a professor at the Advanced School for Traditional Chinese Medicine in Peking, a member of the Editorial Committee of the *Journal of Traditional Chinese Medicine*, and was formerly Editor-in-Chief of the *Chinese Quarterly of Acupuncture and Moxibustion*. In addition to many journal articles, he has authored numerous monographs including "Histology and Anatomy," "Concise Acupuncture, Moxibustion, and Orthopedics," and contributed to "Medical Bamboo Slips of Han Dynasty Unearthed in Wu Wei," "Ancient Chinese Medical Gymnastics (silk scroll unearthed in Ma Wang Dui)," and "Prescriptions for 52 Kinds of Diseases (silk scroll unearthed in Ma Wang Dui)." Dr. Ma has also conducted research on historical relics, including ancient scrolls, medical instruments, and medical stones.

NMAC Publications from NTIS

The following publications, many of which were formerly distributed by the National Medical Audiovisual Center, are now available at the prices quoted (or $3.50 microfiche) from the National Technical Information Service (Springfield, VA 22161). For information on any of these titles, call (301) 496-3547, or write: National Library of Medicine, National Medical Audiovisual Center, B1N14/LHC. Attn: Publications Information, Bethesda, Maryland 20209.

	Accession Number	Cost
• *Applied Mathematics for Medical Students*	PB81-164071	$ 8.50
• *Audiovisual Projection Systems—Technical Report #1*	PB81-162752	6.50
• *Building Your Own Multiple Purpose Camera Stand*	PB81-162786	5.00
• *Classroom Services: A Guide to Organizing a Classroom Services Unit in Health Sciences Educational Institutions*	PB81-162778	6.50
• *Content Analysis of Veterinary Pathology*	PB81-163347	14.00
• *Cooperative Approach to Designing, Developing, and Evaluating Self-Instructional Materials for Medical Students*	PB81-162703	6.50
• *Cooperative Sharing of Audiovisual Materials in Medical Schools... A Network Approach*	PB81-162836	8.00
• *Developing a Learning Resource Center*	PB81-162802	8.00
• *Educational Cognitive Style for Health Sciences Students Final Report: Part I—Test Battery & Admin. Manual*	PB81-163461	11.00
• *Educational Cognitive Style for Health Sciences Students Final Report: Part II—Research Design & Analysis of Data*	PB81-163479	12.50
• *Effective Clinical Teaching*	PB81-162794	8.00
• *Establishing a Learning Resource Center in a Medical Library*	PB81-164048	5.00
• *Establishing an Educational Development Services Unit*	PB81-162729	6.50
• *Joints and Movements*	PB81-164089	6.50
• *Learning Resources Center Conference: Proceedings & Evaluation*	PB81-162828	8.50
• *Legal and Ethical Aspects of Proprietary Rights to Federally Funded Media Programs*	PB81-162810	5.00
• *Medical and Graphic Arts Unit*	PB81-162760	6.50
• *Medical Cinematography*	PB81-162844	8.00
• *Medical Television Center*	PB81-162851	5.00
• *Organizing a Biological Photographic Unit*	PB81-163388	6.50
• *Patient Oriented Problem-Solving System in Immunology*		
Complete Set (5 Case studies)	PB81-164121	39.50
Immunodeficiency Disease	PB81-164170	9.50
Influenza: Serologic Diagnosis and Epidemiology	PB81-164154	9.50
Instructor's Manual	PB81-164139	5.00
Paternity Case: Blood Groups & Allotypes	PB81-164162	9.50
Tetanus Immunity	PB81-164147	9.50
• *Problem-Based Learning in Health Sciences Education*	PB81-164055	6.50
• *Technical Manual for Applied Mathematics for Medical Schools*	PB81-164063	5.00
• *Trigger Films—Development & Use*	PB81-163701	8.00
• *Use of Subjective Evaluation Instruments in Health Sciences Education*	PB81-162893	8.50

"Red Cross Nurse," from the Library's Prints and Photographs Collection, is one of four NLM works selected for "Medicine and Science in American Art"—a wide-ranging exhibit first presented at the Birmingham Museum of Art and continued at the Mississippi Museum of Art.

The lithograph, done in 1918 by Childe Hassam, is especially interesting to NLM: Hassam's model for the nurse was his artist colleague Cecilia Beaux, who painted the fine oil portrait of John Shaw Billings that hangs in the Library's main reading room. This portrait appeared on the cover of *JAMA*, January 26, 1979.

Other NLM works on loan for the exhibit, which ends June 7th, are "San Francisco Marine Hospital" (oil, unidentified artist, ca. 1850); George Bellows' "Murder of Edith Cavell"

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(lithograph, 1918); and "A surgeon at work at the rear during the Civil War," a wood engraving after a drawing by Winslow Homer, 1862.

Leading art historian **William H. Gerdtz** prepared an extensively illustrated book (*The Art of Healing: Medicine and Science in American Art*), which was published by the Birmingham Museum of Art in conjunction with the exhibit. It provides a fresh view of the relationship between medicine, science, and art in America, and contains information on a number of prints in NLM's collection in addition to the four works loaned by NLM for the exhibit.

Watch Your Mail for New Publications Listing

This year's edition of the NLM Publications List, to be mailed in May to all *News* subscribers, contains over twenty pages of information on NLM's publications. Nearly 200 titles are listed, along with sources for reprint and microform editions. Titles, prices, distributors, and helpful ordering instructions are included.

The list has been expanded this year to include descriptions of many publications, GPO and NTIS order forms, and the 1980 list of NLM Literature Searches (MEDLARS-produced bibliographies deemed to be of wide interest). We have tried to make it a complete package to help you easily obtain our publications. The list may be freely photocopied. Inquiries may be addressed to :

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ATTN: Mrs. Beckwith
National Library of Medicine
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